#### TITLE V INDICATOR TEMPLATES

INDICATOR: Low birthweight

**DEFINITION:** The percent of live births weighing less than 2,500 grams

**NUMERATOR:** The number of live births weighing less than 2,500 grams,

by place of residence, in a calendar year

**DENOMINATOR:** The total number of live births, by place of residence, in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:** 

Reduce low birthweight to an incidence of no more than 5 percent of

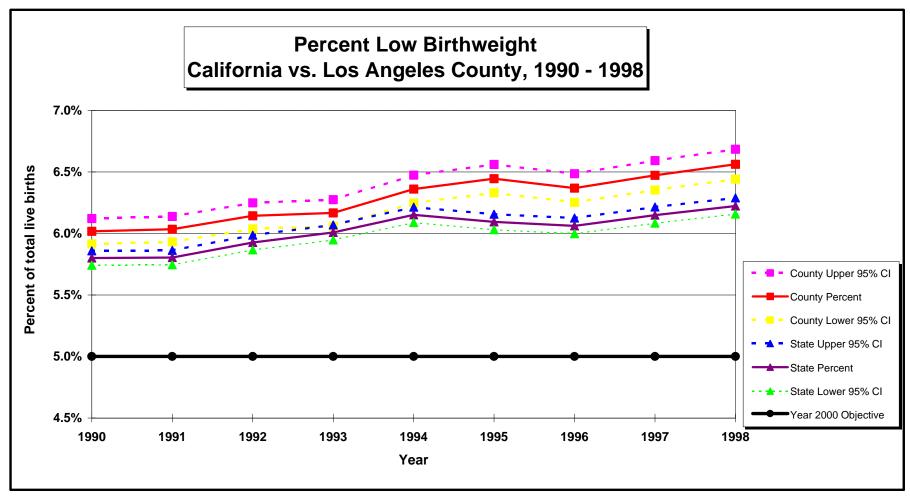
live births. (Baseline: 6.9 percent in 1987) (Objective 14.5)

**RISK FACTORS:** 

Young or old maternal age; low income; low maternal education level; race/ethnicity (African American, Puerto Rican, Southeast Asian); high parity; short interpregnancy interval; multiple gestation; unintended pregnancy; history of low birthweight; poor reproductive history; intrauterine growth retardation; preterm birth; prior preterm birth; late entry into prenatal care; lack of comprehensive prenatal care; low pre-pregnancy weight; tobacco use during pregnancy; alcohol/substance abuse during pregnancy; low pregnancy weight gain; placenta previa; premature rupture of the membrane; stress during pregnancy; strenuous exertion during pregnancy

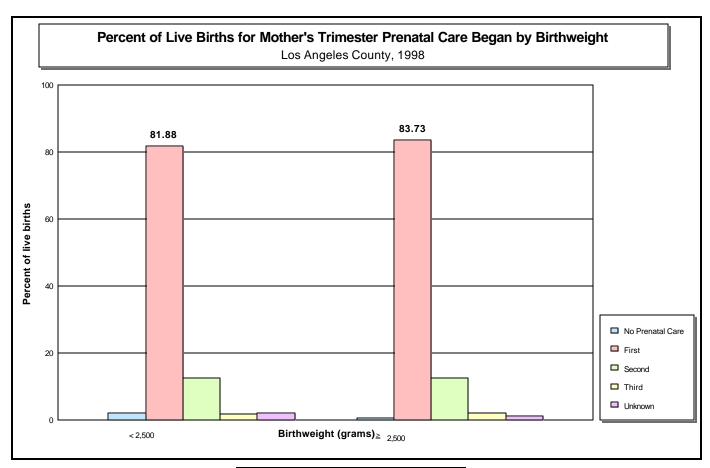
		Cali	fornia			LA C	ounty		
	Low Birt	Low Birthweight 95% Confidence Interval			Low Birt	thweight	95% Confidence Interval		
Year	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper	
1990	35,474	5.80%	5.74%	5.86%	12,283	6.02%	5.91%	6.12%	
1991	35,359	5.80%	5.75%	5.86%	12,234	6.03%	5.93%	6.14%	
1992	35,608	5.93%	5.87%	5.99%	12,127	6.14%	6.04%	6.25%	
1993	35,116	6.01%	5.95%	6.07%	11,698	6.17%	6.06%	6.27%	
1994	34,876	6.15%	6.09%	6.21%	11,474	6.36%	6.25%	6.47%	
1995	33,588	6.09%	6.03%	6.16%	11,270	6.45%	6.33%	6.56%	
1996	32,649	6.06%	6.00%	6.13%	10,761	6.37%	6.25%	6.48%	
1997	32,232	6.15%	6.08%	6.21%	10,487	6.47%	6.35%	6.59%	
1998	32,438	6.22%	6.16%	6.29%	10,408	6.56%	6.44%	6.68%	

DENOMINATO	R: Live Births
California	LA County
611,666	204,124
609,228	202,737
600,838	197,415
584,483	189,706
567,034	180,394
551,226	174,862
538,628	168,973
524,174	162,036
521,265	158,604



Year 2000 Objective: Reduce low birthweight to an incidence of no more than 5 percent of live births

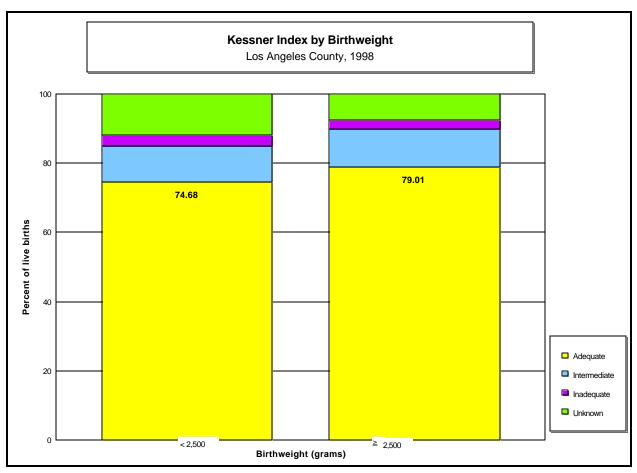
Source: 1990-1998 birth records from California Department of Health Services, Center for Health Statistics



		Birthweigh	t (grams)				
	< 2,50	00	<u>≥</u> 2,500				
Live Births	Number	Percent	Number	Percent			
No PNC	199	1.91	846	0.57			
First	8,522	81.88	124,085	83.73			
Second	1,295	12.44	18,295	12.35			
Third	190	1.83	3,125	2.11			
Unknown	202	1.94	1,843	1.24			
Total	10,408	100.00	148,194	100.00			

Note: PNC = 'Prenatal Care'

Live births with unknown birthweight were excluded from this analysis.

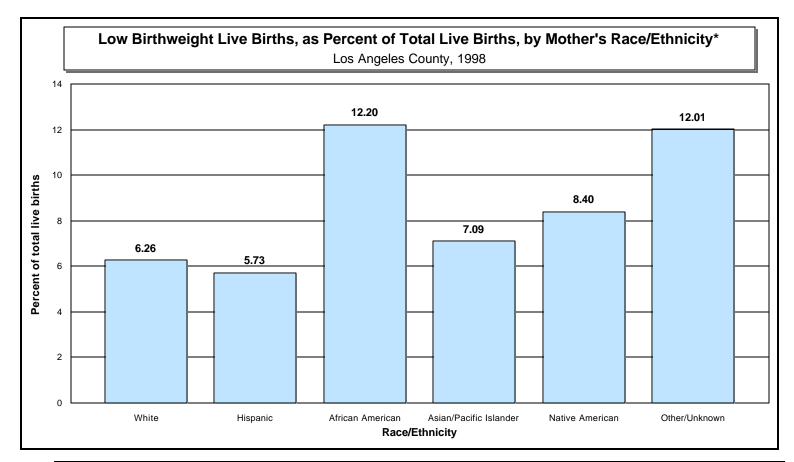


		Birthweigh	t (grams)			
	< 2,5	00	<u>≥</u> 2,500			
Live Births	Number	Percent	Number	Percent		
Adequate	7,960	76.48	117,082	79.01		
Intermediate	1,076	10.34	16,195	10.93		
Inadequate	313	3.01	3,869	2.61		
Unknown	1,059	10.17	11,048	7.46		
Total	10,408	100.00	148,194	100.00		

Note: The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Live births with unknown birthweight were excluded from this analysis.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



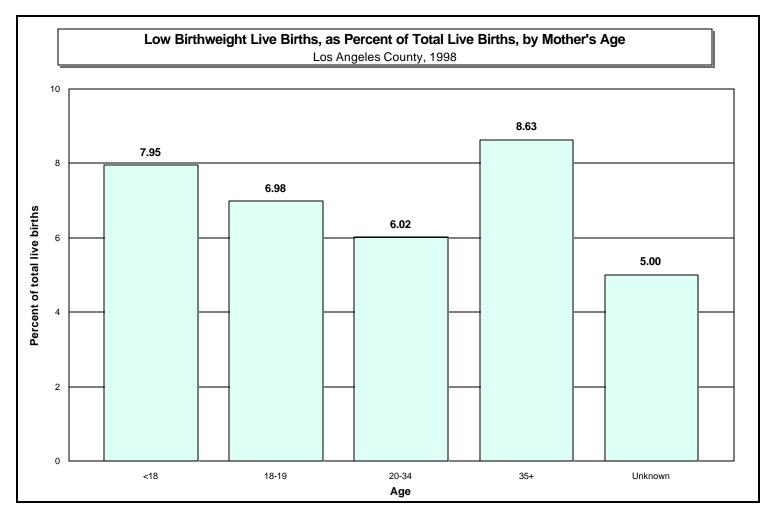
						Race/Ethnicity											
	Whi	ite	Hisp	Hispanic African American Asian**/Pacific Islander Nat			Native A	e American Other/Unkn		nknown							
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent					
<2,500 grams	1,918	6.26	5,617	5.73	1,738	12.20	1,061	7.09	22	8.40	52	12.01					
Total	30,621	100.00	98,074	100.00	14,246	100.00	14,968	100.00	262	100.00	433	100.00					

<sup>\*</sup> White, African American, Asian, Pacific Islander, Native American and other races exclude Hispanic ethnicity.

Note: Low birthweight is defined as weight less than 2,500 grams at birth.

Hispanic includes any race category.

<sup>\*\*</sup> Filipino is included in Asian.

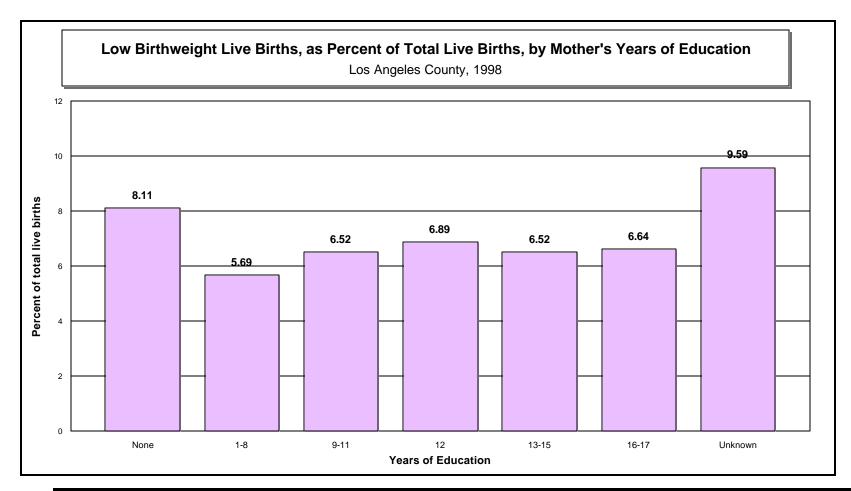


					Ag	qe					
	< 18		18 - 19		20 - 34		35	j+	Unkņown		
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
<2,500 grams	565	7.95	778	6.98	7,008	6.02	2,056	8.63	1	5.00	
Total	7,107	100.00	11,153	100.00	116,491	100.00	23,833	100.00	20	100.00	

Year 2000 Objective: Reduce low birthweight to an incidence of no more than 5 percent of live births.

Note: Low birthweight is defined as weight less than 2,500 grams at birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

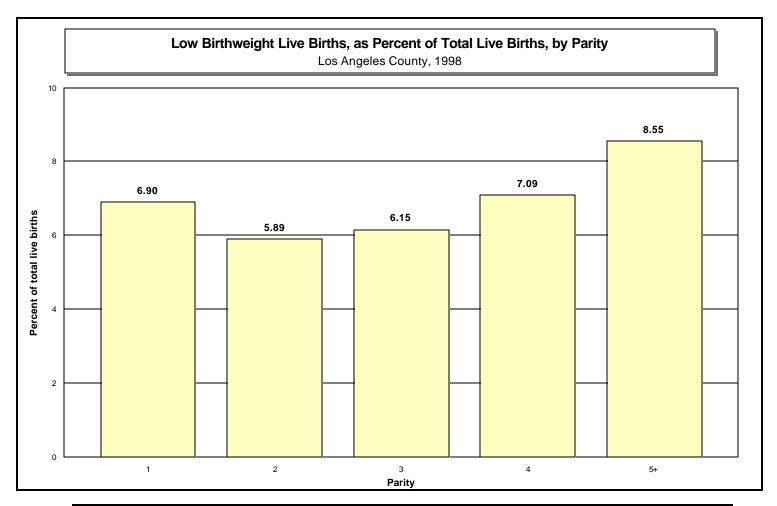


		Years of Education												
	None		1 - 8		9 - 11		12		13 - 15		16 - 17		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	45	8.11	1,405	5.69	2,249	6.52	3,044	6.89	1,746	6.52	1,704	6.64	215	9.59
Total	555	100.00	24,684	100.00	34,480	100.00	44,208	100.00	26,764	100.00	25,670	100.00	2,243	100.00

Note: Low birthweight is defined as weight less than 2,500 grams at birth.

Year '17' = mothers who attained college degree or above

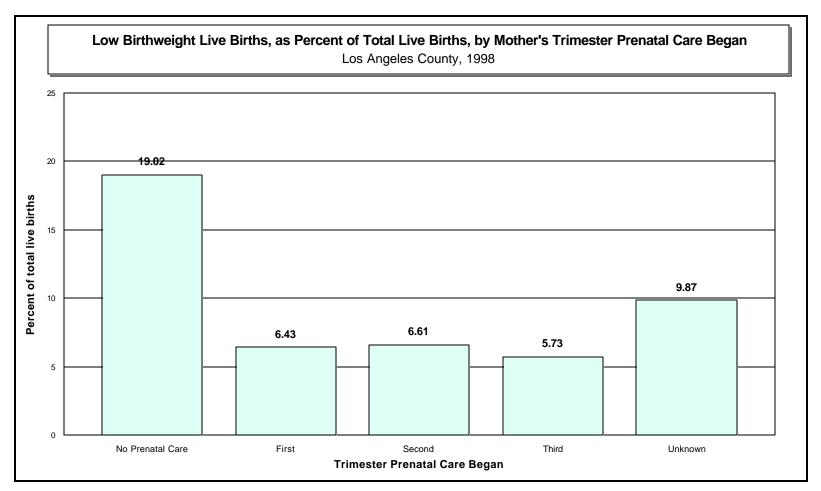
This analysis did not adjust for teen mothers who may not be old enough to have reached higher categorical education level.



		Parity											
	1		2		3		4		5+		Not Stated		
Live Births	Number	Percent	Number	Percent									
<2,500 grams	4,104	6.90	2,922	5.89	1,726	6.15	871	7.09	761	8.55	24	11.06	
Total	59,482	100.00	49,634	100.00	28,084	100.00	12,290	100.00	8,897	100.00	217	100.00	

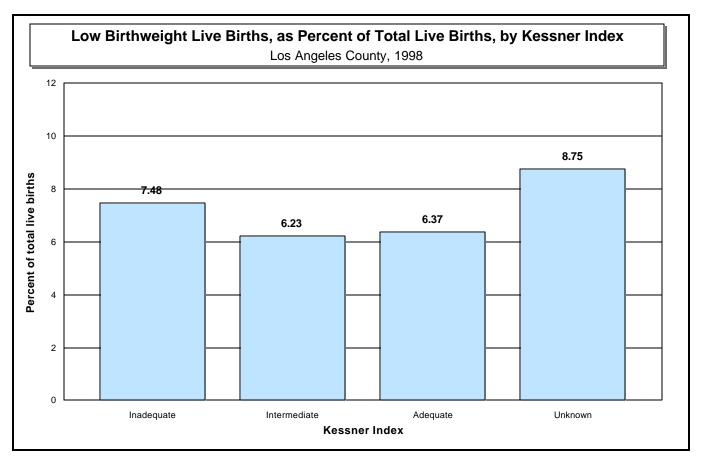
Note: Parity = number of pregnancies resulting in live births to a woman

Low birthweight is defined as weight less than 2,500 grams at birth.



		Trimester Prenatal Care Began												
	No Prena	atal Care	Fir	First Second Third				Unknown						
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent				
<2,500 grams	199	19.02	8,522	6.43	1,295	6.61	190	5.73	202	9.87				
Total	1,046	100.00	132,607	100.00	19,590	100.00	3,315	100.00	2,046	100.00				

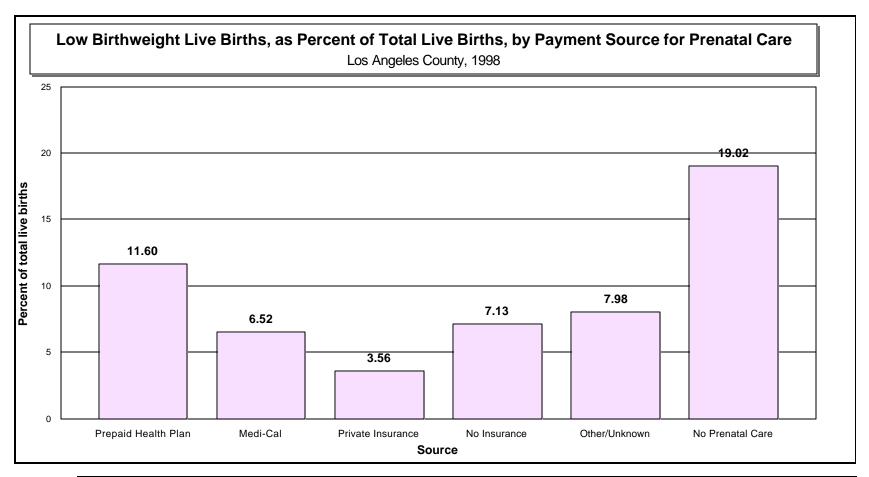
Low birthweight is defined as weight less than 2,500 grams at birth.



				Kessne	r Index				
	Inade	quate	Interm	ediate	Adeq	uate	Unknown		
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
<2,500 grams	313	7.48	1,076	6.23	7,960	6.37	1,059	8.75	
Total	4,182	100.00	17,271	100.00	125,042	100.00	12,109	100.00	

Note: Low birthweight is defined as weight less than 2,500 grams at birth.

The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

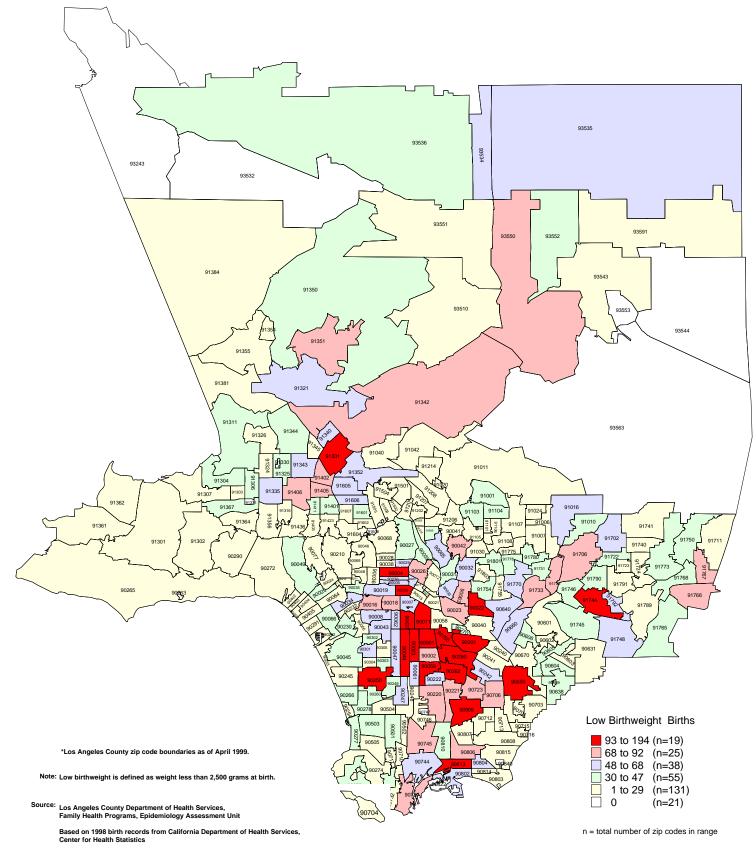


		Source of Payment											
	Prepaid He	ealth Plan	Medi	-Cal	Private Ir	nsurance	No Ins	urance	Other/U	Other/Unknown		atal Care	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
<2,500 grams	3,162	11.60	4,857	6.52	1,793	3.56	306	7.13	91	7.98	199	19.02	
Total	27,248	100.00	74,468	100.00	50,411	100.00	4,291	100.00	1,140	100.00	1,046	100.00	

Note: Low birthweight is defined as weight less than 2,500 grams at birth

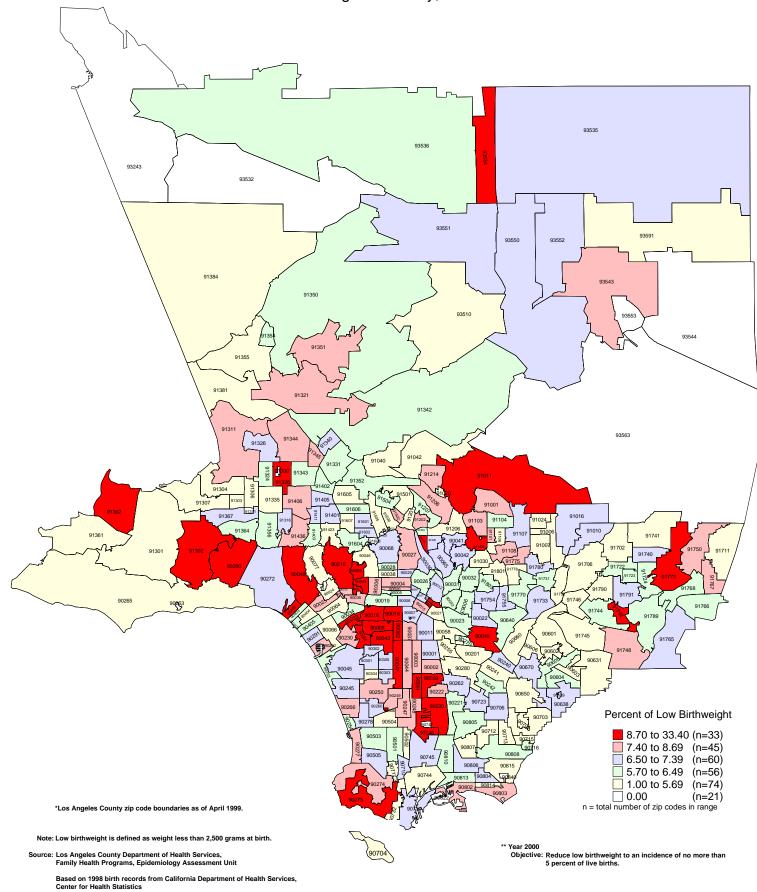
### Number of Low Birthweight (LBW) Live Births by Zip Code\*

Los Angeles County, 1998



## Percent of Low Birthweight (LBW) Live Births by Zip Code\*

Los Angeles County, 1998



#### TITLE V INDICATOR TEMPLATES

INDICATOR: Very low birthweight

**DEFINITION:** The percent of live births weighing less than 1,500 grams

**NUMERATOR:** The number of live births weighing less than 1,500 grams,

by place of residence, in a calendar year

**DENOMINATOR:** The total number of live births, by place of residence, in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:** 

Reduce very low birthweight to an incidence of no more than

1 percent of live births. (Baseline: 1.2 percent in 1987) (Objective 14.5)

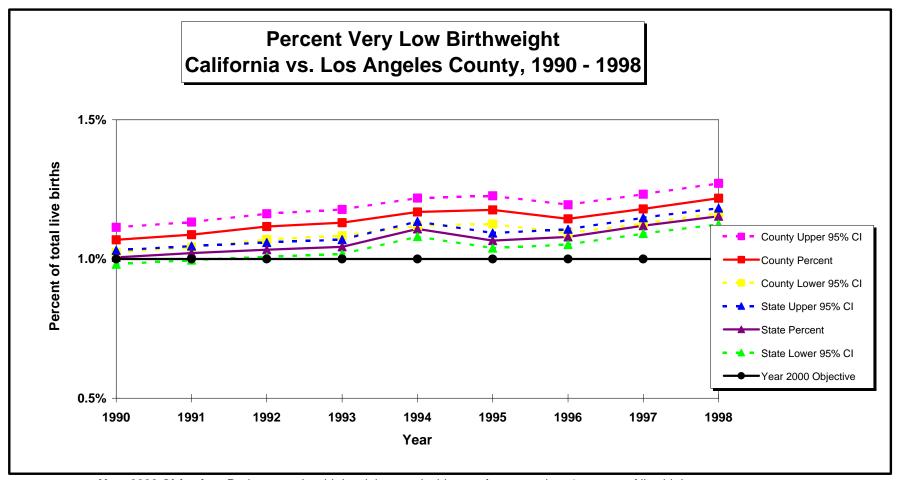
**RISK FACTORS:** Preterm birth; prior preterm birth; race/ethnicity (African American, Puerto Rican);

substance use/abuse (e.g. illicit drug use)

See also risk factors for low birthweight.

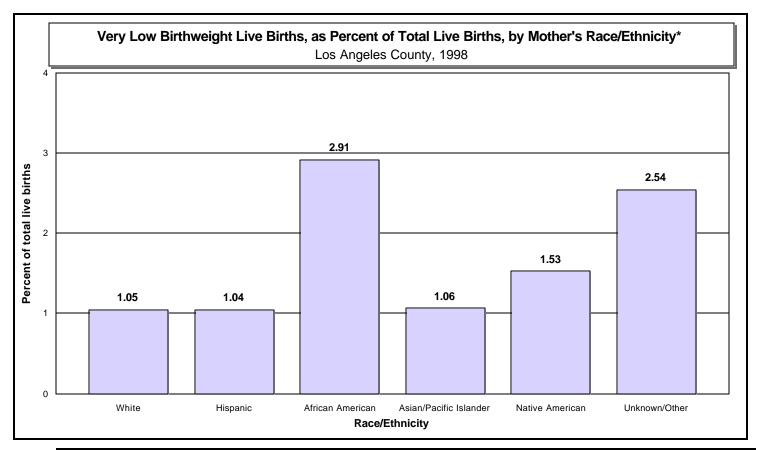
		Cali	fornia			LA C	ounty		
	Very Low Birthweight			nfidence rval	Very Birthv	Low veight	95% Confidence Interval		
Year	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper	
1990	6,152	1.01%	0.98%	1.03%	2,182	1.07%	1.02%	1.11%	
1991	6,223	1.02%	1.00%	1.05%	2,205	1.09%	1.04%	1.13%	
1992	6,209	1.03%	1.01%	1.06%	2,204	1.12%	1.07%	1.16%	
1993	6,099	1.04%	1.02%	1.07%	2,145	1.13%	1.08%	1.18%	
1994	6,282	1.11%	1.08%	1.14%	2,109	1.17%	1.12%	1.22%	
1995	5,877	1.07%	1.04%	1.09%	2,057	1.18%	1.13%	1.23%	
1996	5,812	1.08%	1.05%	1.11%	1,933	1.14%	1.09%	1.19%	
1997	5,869	1.12%	1.09%	1.15%	1,912	1.18%	1.13%	1.23%	
1998	6,013	1.15%	1.12%	1.18%	1,932	1.22%	1.16%	1.27%	

DENOMINATO	R: Live Births
California	LA County
611,666	204,124
609,228	202,737
600,838	197,415
584,483	189,706
567,034	180,394
551,226	174,862
538,628	168,973
524,174	162,036
521,265	158,604



Year 2000 Objective: Reduce very low birthweight to an incidence of no more than 1 percent of live births

Source: 1990-1998 birth records from California Department of Health Services, Center for Health Statistics

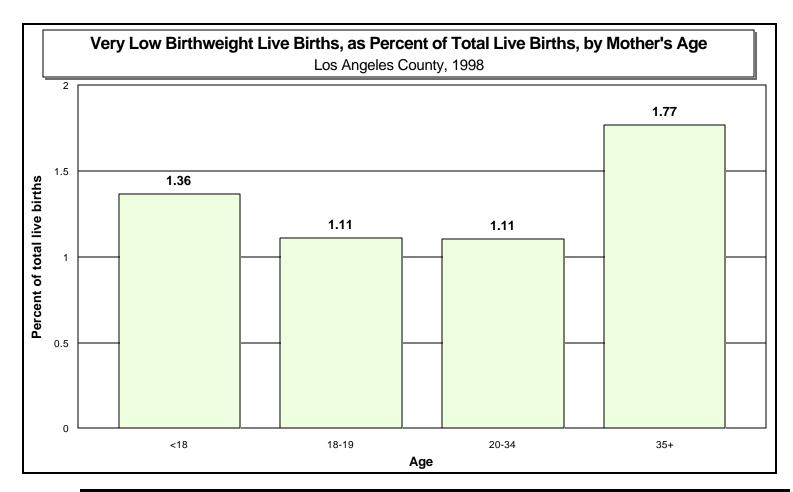


		Race/Ethnicity											
	White		Hispanic		African A	African American		Asian**/Pacific Islander		Native American		Unknown/Othe	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
<1,500 grams	320	1.05	1,023	1.04	415	2.91	159	1.06	4	1.53	11	2.54	
Total	30,621	100.00	98,074	100.00	14,246	100.00	14,968	100.00	262	100.00	433	100.00	

<sup>\*</sup> White, African American, Asian, Pacific Islander, Native American and other races exclude Hispanic ethnicity Hispanic includes any race category

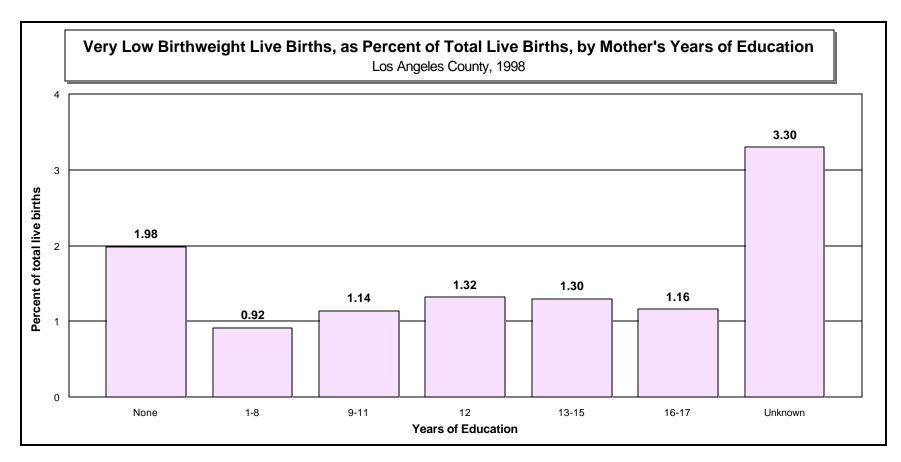
Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

<sup>\*\*</sup> Filipino is included in Asian



		Age											
	<18		18-19		20-34		35+		Unknown				
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent			
<1,500 grams	97	1.36	124	1.11	1,290	1.11	421	1.77	0	0.00			
Total	7,107	100.00	11,153	100.00	116,491	100.00	23,833	100.00	20	100.00			

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

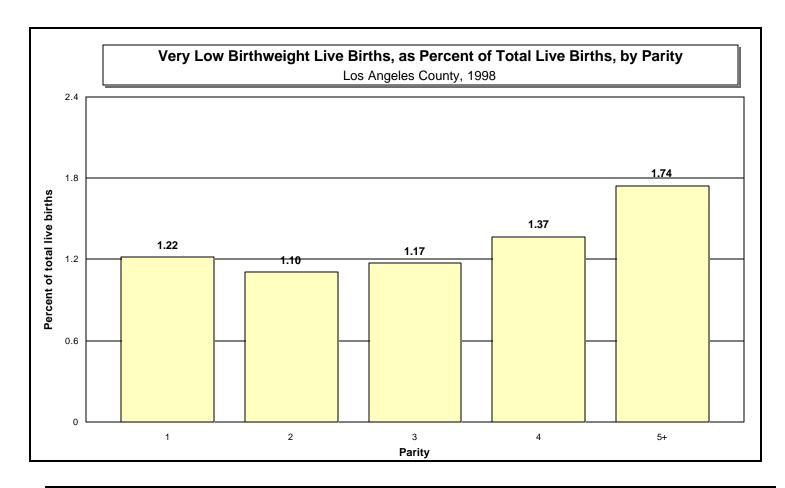


		Years of Education												
	None 1-8 9-11		11	12		13-15		16-17			Unknown			
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	11	1.98	226	0.92	393	1.14	582	1.32	348	1.30	298	1.16	74	3.30
Total	555	100.00	24,684	100.00	34,480	100.00	44,208	100.00	26,764	100.00	25,670	100.00	2,243	100.00

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

Year '17' = mothers who attained college degree or above

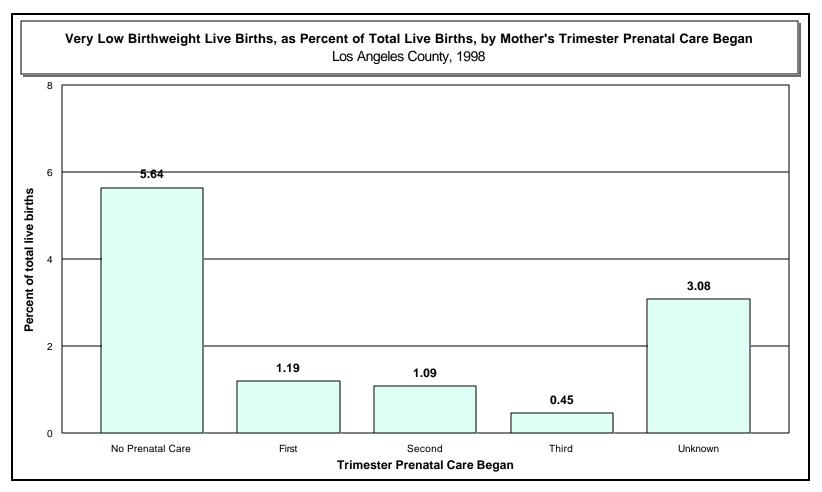
This analysis did not adjust for teen mothers who may not be old enough to have reached higher categorical education level.



		Parity											
	. 1		2		3		4		5+		Unknown		
Live Births	Number	Percent	Number	Percent									
<1,500 grams	723	1.22	548	1.10	329	1.17	168	1.37	155	1.74	9	4.15	
Total	59,482	100.00	49,634	100.00	28,084	100.00	12,290	100.00	8,897	100.00	217	100.00	

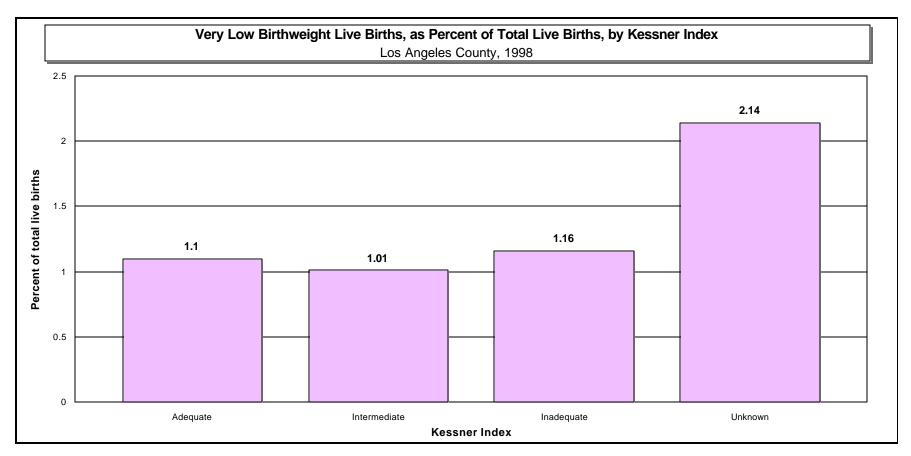
Note: Parity = number of pregnancies resulting in live births to a woman

Very low birthweight is defined as weight less than 1,500 grams at birth.



		Trimester Prenatal Care Began											
	No Prenatal Care		First		Second		Third		Unknown				
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent			
<1,500 grams	59	5.64	1,582	1.19	213	1.09	15	0.45	63	3.08			
Total	1,046	100.00	132,607	100.00	19,590	100.00	3,315	100.00	2,046	100.00			

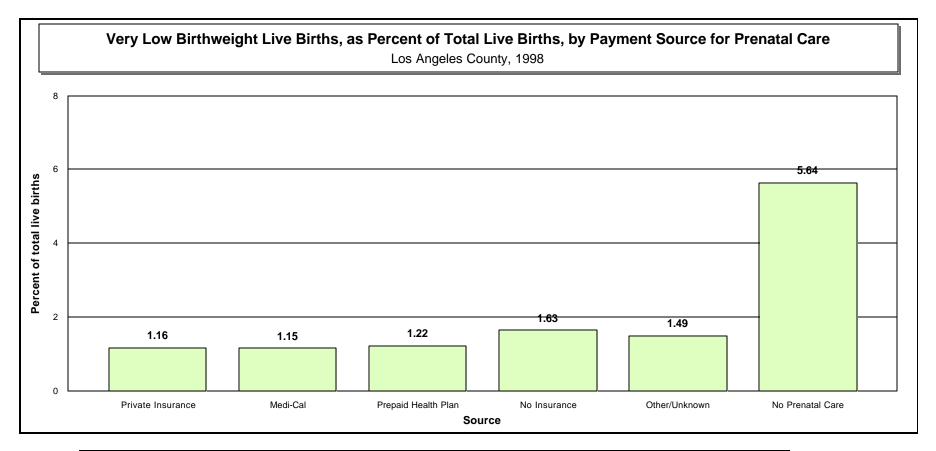
Note: Very low birthweight is defined as weight less than 1,500 grams at birth.



				Kessn	er Index				
	Inadequate Intermediate			ediate	Ade	quate	Unknown		
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
<1,500 grams	46	1.10	175	1.01	1,452	1.16	259	2.14	
Total	4,182	100.00	17,271	100.00	125,042	100.00	12,109	100.00	

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.



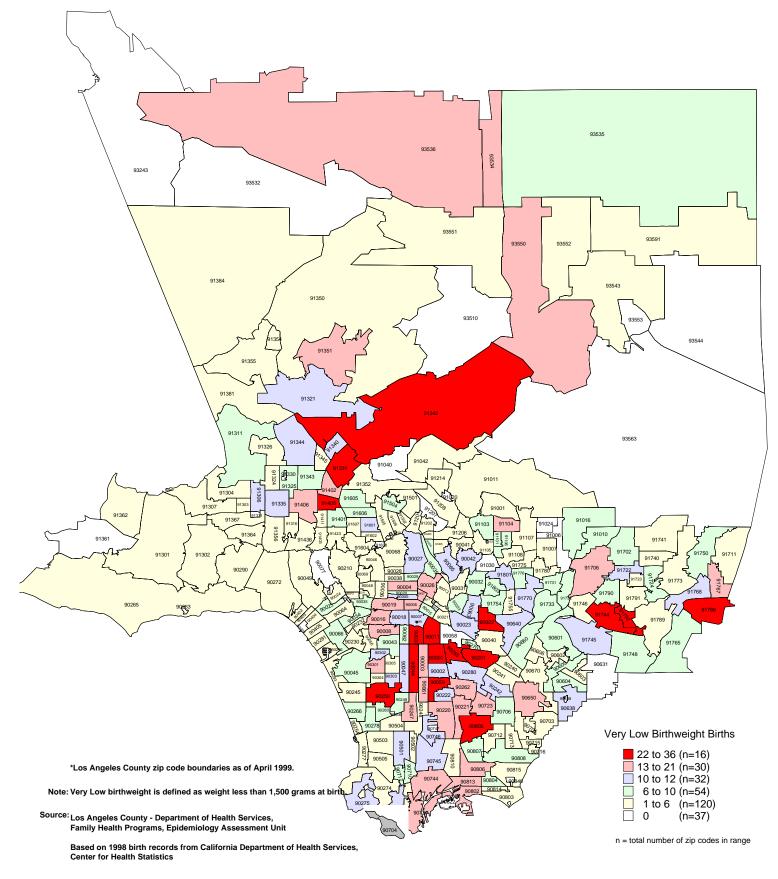
		Source of Payment											
	Private Insurance Medi-Cal		Prepaid Health Plan		No Insurance		Other/Unknown		No Prenatal Care				
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
<1,500 grams	317	1.16	853	1.15	616	1.22	70	1.63	17	1.49	59	5.64	
Total	27,248	100.00	74,468	100.00	50,411	100.00	4,291	100.00	1,140	100.00	1,046	100.00	

Year 2000 Objective: Reduce very low birthweight to an incidence of no more than 1 percent of live births.

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

# Number of Very Low Birthweight (VLBW) Live Births by Zip Code\*

Los Angeles County, 1998



## Percent Very Low BirthWeight (VLBW) Live Births by Zip Code\*

Los Angeles County, 1998

